# South Dayton Dump OU 1 Hot Spot Issues Ohio EPA April 17, 2012

Over the past several months, Ohio and U.S. EPA have been discussing the issue of hot spots at South Dayton Dump and the need to evaluate the hot spots prior to the development of a proposed plan for Operable Unit 1 (OU 1). At a February 15, 2012 meeting between agency program managers, it was decided that Ohio EPA would prepare an evaluation of potential hot spots at South Dayton Dump, applying the hot spot criteria in the municipal landfill presumptive remedy guidance.

The hot spot areas Ohio EPA is most concerned about are located in the immediate vicinity of the existing on-site businesses. Excepting the Ottoson Solvents drum disposal area, the primary contaminants of concern associated with these hot spots are volatile organic compounds (VOCs) in the vadose zone which present a vapor intrusion threat to the on-site businesses.

# **Vadose Zone VOC Hot Spots**

On March 9, 2012, Ohio EPA sent U.S. EPA a letter expressing concern that the vapor intrusion risk posed to on-site businesses could not be reliably controlled by a cap and passive landfill gas system. We recommended that active soil vapor extraction be evaluated for the business area along Dryden Road to address vadose zone VOC source areas and to prevent accumulation of unacceptable levels of landfill gas and VOCs beneath the businesses. We understand that U.S. EPA has incorporated a remedial component into the alternatives being evaluated in the OU 1 FS which consists of a fully penetrating active landfill gas collection system installed throughout the specialty asphalt cap (Matcon) area of the Site. The addition of this component to the remedial alternatives under evaluation should address the long-term vapor intrusion risks associated with the vadose zone VOC hot spots in this area. With the following exception, we propose to set aside further discussion of vadose zone VOC hot spots until we receive the draft OU 1 proposed plan.

### **Ottoson Solvents Drums**

Ottoson Solvents was a drum recycler that began operation in the late 1950s on approximately two acres of what is now part of the Valley Asphalt property. Ottoson Solvents bought used drums from companies and repainted, refurbished, and resold the drums. Reportedly, if the drums contained residuals, the residuals would be emptied into another drum and, when that drum was full, it would be buried.<sup>1</sup> The drums were first encountered in 2000 during excavation for a sewer line at Valley Asphalt. Five drums were excavated from the shallow sewer trench before the excavation was halted. A number of other drums visible in the sewer excavation were left in place (see Attachment 1).

<sup>&</sup>lt;sup>1</sup> Remedial Investigation Report, Operable Unit 1, South Dayton Dump and Landfill, Moraine, Ohio, Conestoga Rovers & Associates, April 2010, Executive Summary, page iii.

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The Ottoson Solvents drum area meets the criteria for hot spot characterization and/or treatment; i.e., the four hot spot questions in Highlight 4 in the U.S. EPA's *Presumptive Remedy for CERCLA Municipal Landfill Sites* guidance (the guidance) can be answered in the affirmative.

# 1) The presence and location of the waste is known.

Both the presence and location of the Ottoson Solvents drums were known at the time the Administrative Settlement Agreement and Order on Consent (ASAOC) for Remedial Investigation/ Feasibility Study (RI/FS) of the Site was negotiated. Specific language requiring investigation and evaluation of hot spots was incorporated throughout ASAOC as a result, and their location, identified as "Sewer Excavation May 2000," was depicted on Figure 1 of the ASAOC (see Attachment 2). The location of the drums was confirmed during the limited RI when test trench TT-21 was excavated at what was assumed to be the perimeter of the drum disposal area (see Attachment 3). The test trench confirmed the presence of drummed waste at the location identified in the ASAOC (see Attachment 3).

# 2) The drums contain principal threat waste.

The five drums removed during the 2000 sewer excavation were disposed of off-site as hazardous waste. A composite sample collected from the 5 drums failed TCLP for barium, cadmium, and lead. The sample also contained 75 mg/kg PCBs, exceeding the 50 mg/kg TSCA criteria. The highly mobile and toxic contaminants TCE, vinyl chloride, and benzene were also present at levels which would pose a leaching to groundwater risk of  $1 \times 10^{-3}$  or greater. While the composite sample was not analyzed for TCLP VOCs, the level of TCE in the total VOC analysis exceeded twenty times the TCE TCLP limit. The drum excavated from test trench TT-21 in 2008 during the RI was also disposed of off-site as characteristic hazardous waste for failing TCLP for lead and benzene. This drum also contained highly mobile and/or highly toxic contaminants, including numerous VOCs, SVOCs, and PCBs. Relevant analytical results for the drums are attached (see Attachment 4).

The drums contain liquids. Pictures of the 2000 sewer line excavation show a decapitated drum containing liquids in the path of the excavation (see attachment 5). The drum from the 2008 test trench contained 26% liquid based on laboratory analysis.

The drums contain principal threat waste, including a variety of highly toxic and/or mobile contaminants at levels that could pose risks in excess of  $10^{-3}$  and qualify as both hazardous and TSCA waste.

### 3) The waste is in a discrete, accessible part of the landfill.

As evidenced by the 2000 sewer line excavation, RI test trench TT-21, and anecdotal information concerning Ottoson Solvent's operations (see Attachment 6), the drums are localized within the

April 17, 2012 Page 3

northwestern portion of an approximately two-acre area leased by Ottoson Solvents. Ottoson Solvents operations were confined at the time by surrounding active businesses: Murphy's Plumbing to the east, an auto salvage yard and GMC truck dealer to the south, Valley Asphalt to the southwest, and the river to the north. The drums encountered in the sewer line trench and in TT-21 appear to be associated with Ottoson Solvents operations. The wide variety of contaminants detected (see Attachment 4) and the location of the drums aligns well with documented descriptions of historic operations at the Ottoson Solvents facility. Drums were not encountered in TT-22, directly south of the Ottoson Solvents building (see Attachment 3). The drum encountered in TT-21 was 7 feet below ground surface; the drums excavated in 2000 were that depth or shallower. The Ottoson Solvents drums are in a discreet, readily accessible part of the landfill.

4) The hot spot is large enough that its remediation will reduce the threat posed by the overall site but small enough that it is reasonable to consider removal.

The Ottoson Solvent drums are located in the northern end of the existing business area being considered for the specialty asphalt (Matcon) cap. As can be seen from Attachments 2 and 3, the location of the drums is near the GMR, in an area of shallow groundwater table fluctuations and flow reversal during high water events. As outlined above, it is evident that the drums contain a variety of principal threat wastes, are near-surface and readily accessible, and based on all available information, appear to be limited to the northwestern edge of the two-acre area leased by Ottoson Solvents. Unlike the vadose zone VOC hot spots, there is no hope that the wastes in the drums will eventually be removed by an active landfill gas extraction system.

U.S. EPA's guidance states "The overriding question is whether the combination of the waste's physical and chemical characteristics and volume is such that the integrity of the new containment system will be threatened if the waste is left in place."

Our understanding is that, as a result of the December 2010 dispute resolution between U.S. EPA and the Respondent PRPs, some containment components of U.S. EPA's presumptive remedy for municipal landfills (most notably source area groundwater control and leachate extraction and treatment) will not be considered in the OU 1 FS or ROD.

Based on the same streamlined risk assessment process U.S. EPA has employed during OU 1, existing site data support the need for source area groundwater/leachate control. All of the hot spot waste discussed above, including the drums and the vadose zone VOC sources, contain levels of contamination which exceed 10<sup>-3</sup> risk levels based on leaching to groundwater. Monitoring wells located at the edge of the OU 1 waste management area detect the same contaminants detected in the hot spots. In the absence of source area groundwater/leachate controls, there is no doubt that the integrity of the OU 1 containment system is threatened by the presence of this waste. Even if source area groundwater controls were included in OU 1, site-specific conditions suggest that such controls could be technically challenging to implement.

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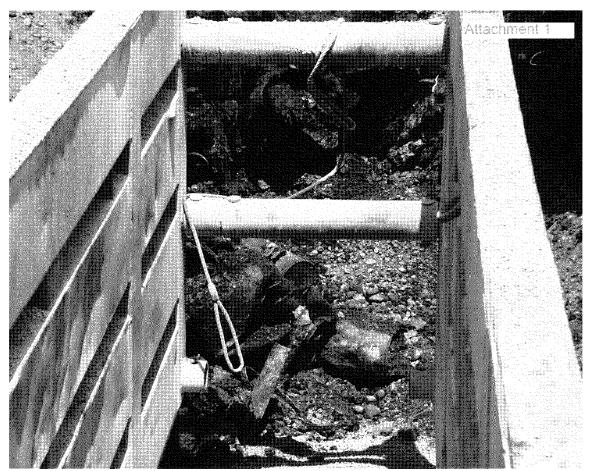
# **Summary and Conclusions**

The South Dayton Dump is not an engineered landfill. Before solid waste rules were established, it operated as an open burning dump in an unlined gravel pit over what is now a federally designated sole source drinking water aquifer. When solid waste rules were established, the South Dayton Dump was unable to meet the siting requirements and was required to cease accepting solid waste and go through closure. Instead, the Site continued to operate, accepting waste which was exempted from regulation as solid waste at the time. Although all disposal activities ended in the 1990s, the South Dayton Dump never went through closure.

The 2005 Flood Insurance Rate Map (FEMA, 2005) indicates 60 percent of the Site is located within the 100-year flood plain of the Great Miami River (GMR). Shallow groundwater flow is influenced by the GMR, which flows along the northern and western sides of the Site. Rainfall events which generate high discharge and high water levels in the Great Miami River are common during the late winter and early spring. Monitoring of a high water event during the streamlined RI found water levels in monitoring wells installed between the river and the landfill fluctuating by as much as five feet over a one week period in direct response to GMR river stage. These events lead to a reversal in shallow groundwater flow direction across the site.

These characteristics suggest that reliable source area groundwater control employing perimeter hydraulic capture alone may be technically challenging to implement. Physical containment, such as with a slurry wall, has its own challenges as there is no suitable confining unit into which to key a slurry wall. The sand and gravel deposits in the pit is contiguous with and part of the sand and gravel deposits which make up the prolific sole source drinking water aquifer. There is inherent uncertainty in any retro-fitted subsurface containment system, even under favorable conditions. The technical challenges of implementing source area groundwater control at this site increase that level of inherent uncertainty.

Given the above, the Ottoson Solvent drums should be removed from the Site. Their location is known, they are readily accessible, and they contain wastes which by their very nature cannot be reliably contained under the most favorable conditions. Further evaluation of this hot spot prior to issuance of the OU 1 Proposed Plan is warranted so that appropriate response actions can be incorporated into the plan and, following public comment, into the ROD.



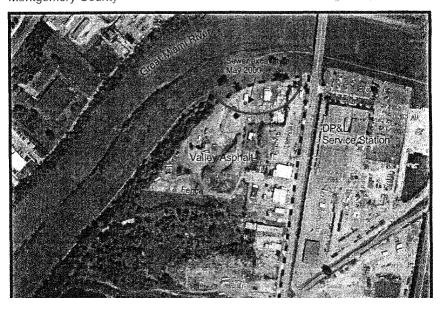
Photograph taken by: Dale Farmer, Ohio EPA Emergency Response, Southwest District

Date: May 17, 2000

#### EPA-R5-2016-005983 Outlook0000740

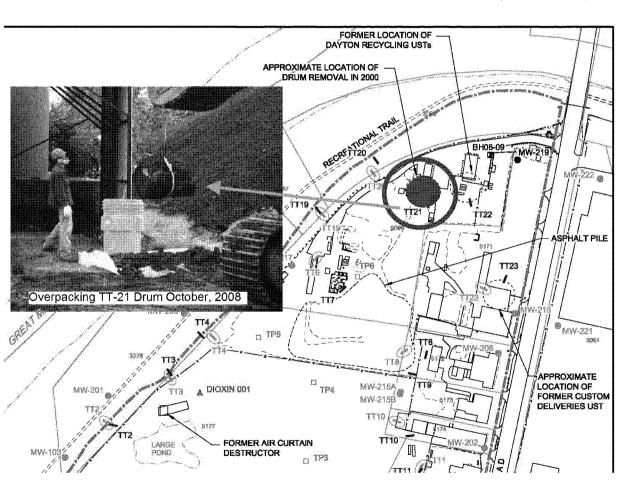
South Dayton Dump Site Moraine, Ohio Montgomery County

Attachment 2 From Figure 1, ASAOC



#### EPA-R5-2016-005983 Outlook0000740

Attachment 3 From Figure 2.2, April 2010 RI Report



Attachment 4, Page 1 of 8
Five Drum-Composite Analytical Results
2000 Sewer Excavation



TCA

223 PIONEER BLVD. SPRINGBORO, OHIO 45066

Attn: DAVID M. SCARDINO

Invoice Number:

Order #: 00-05-664

Date: 06/01/00 09:09

Work ID: VALLEY DRYDEN A

Date Received: 05/18/00

Date Completed: 06/01/00

Client Code: TANK CLOSURE

# SAMPLE IDENTIFICATION

Sample Number

01

Sample

VALLEY DRYDEN A

Description

05/17/00

Sample

Sample

Number \_\_\_\_

Description

Enclosed are results of specified samples submitted for analyses. If there are any questions, please contact Tom Batten. Our Ohio EPA Certification numbers are 836 & 837. Any result of "BDL" indicates "BELOW DETECTION LIMIT".

Certified E

Attachment 4, Page 2 of 8 Five Drum Composite Analytical Results 2000 Sewer Excavation



Order # 00-05-664 06/01/00 09:09

Page 5

TEST RESULTS BY SAMPLE

Sample Description: VALLEY DRYDEN A

05/17/00 Lab No: 01A

Test Description: METALS,

EPA 1311 Method: EPA 1311

Test Code: TCLP M

Collected: **05/17/00** 

Category: SOLID

PARAMETER		RESULT	LIMIT
ARSENIC .	6010 A	BDL	0.1
BARIUM	6010 A	1.92	0.01
CADMIUM	6010 A	2.11	0.01
CHROMIUM	6010 A	BDL	0.01
LEAD-	6010 A	8.26	0.05
MERCURY	7470	BDL	0.002
SELENIUM	6010 A	BDL	0.1
SILVER	6010 A	BDL	0.01

Notes and Definitions for this Report:

EXTRACTED 05/22/00 DATE RUN 05/23/00

ANALYST RJE UNITS  $\underline{mq/L}$ 

METHOD \_\_\_\_EPA 1311

BDL \_BELOW DETECTION LIMIT

Attachment 4, Page 3 of 8
Five Drum Composite Analytical Results
2000 Sewer Excavation



Order # 00-05-664 06/01/00 09:09

TEST RESULTS BY SAMPLE

Page 6

Sample Description: VALLEY DRYDEN A 05/17/00 Lab No: 01A

Test Description: PCB/PESTICIDES SW8080 Method: SW\_846\_8080 Test Code: SW8080

Collected: 05/17/00 Category: SOLID

PARAMETER	RESULT	LIMIT
ALDRIN ALPHA-BHC BETA-BHC DELTA-BHC GAMMÄ-BHC CHLORDANE 4,4-DDT	BDL BDL BDL BDL BDL BDL BDL BDL	0.1 0.1 0.1 0.1 0.1 0.1
4,4-DDE	BDL	0.1
4,4-DDD	BDL	0.1
DIELDRIN	BDL	0.1
ALPHA ENDOSULFAN	BDL	0.1
BETA ENDOSULFAN	BDL	0.1
ENDOSULFAN SULFATE	BDL	1
ENDRIN	BDL	0.1
ENDRIN ALDEHYDE	BDL	0.2
HEPTACHLOR	BDL	0.3
HEPTACHLOR EPOXIDE	BDL	1
PCB-1016	BDL	1
PCB-1221	BDL	2
PCB-1232	BDL	1
PCB-1242	BDL	1
PCB-1248	BDL	1
PCB-1254	75,000	1
PCB-1260	BDL	1
TOXAPHENE	BDL	2
METHOXYCHLOR	BDL	2

 SURROGATE
 %RECOVERY
 LIMITS

 DBC
 88
 70 - 130

 TCX
 77
 70 - 130

Notes and Definitions for this Report:

DATE RUN 05/24/00ANALYST THB
INSTRUMENT GC
FILE ID A05242
UNITS uq/Kq



Attachment 4, page 4 of 8 5 Drum Composite Analytical Results 2000 Sewer Excavation

Order # 00-05-664 06/01/00 09:09

TEST RESULTS BY SAMPLE

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Sample Description: VALLEY DRYDEN A 05/17/00 Lab No: 01A

Test Description: VOLATILE ORGANICS 8260B Method: SW 846 8260B Test Code: SW8260

Collected: 05/17/00

Category: SOLID

PARAMETER	RESULT	LIMIT
ACETONE	BDL	2500
ACROLEIN '	BDL	2000
ACRYLONITRILE	BDL	2000
BENZENE	7,000	500
BROMODICHLOROMETHANE	BDL	500
BROMOFORM	BDL	500
BROMOMETHANE	BDL	500
2-BUTANONE	2500	2500
CARBON DISULFIDE	BDL	500
CARBON TETRACHLORIDE	BDL	500
CHLOROBENZENE	1700	500
CHLORODIBROMOMETHANE	BDL	500
CHLOROETHANE	BDL	500
2-CHLOROETHYL VINYL ETHER	BDL	2000
CHLOROFORM	BDL	500
CHLOROMETHANE	BDL	500
DIBROMOMETHANE	BDL	500
1,4-DICHLORO-2-BUTENE	BDL	500
DICHLORODIFLUOROMETHANE	BDL	500
1,1-DICHLOROETHANE	BDL	500
1,2-DICHLOROETHANE	BDL	500
1,1-DICHLOROETHENE	BDL	500
trans-1,2-DICHLOROETHENE	BDL	500
1,2-DICHLOROPROPANE	BDL	500
cis-1,3-DICHLOROPROPENE	BDL	500
trans-1,3-DICHLOROPROPENE	BDL	500
ETHYLBENZENE	84000	2000
ETHYL METHACRYLATE	BDL	2500
2-HEXANONE	BDL	2500
IODOMETHANE	BDL	500
METHYLENE CHLORIDE	BDL	500
4-METHYL-2-PENTANONE	18000	2500
STYRENE	BDL	500
1,1,2,2-TETRACHLOROETHANE	BDL	500
TETRACHLOROETHENE	BDL	
TOLUENE	530000	5000
1,1,1-TRICHLOROETHANE	BDL	500
1,1,2-TRICHLOROETHANE	BDL	500

Attachment 4, page 5 of 8 5 Drum-Composite Analytical Results 2000 Sewer Excavation



Order # 00-05-664 06/01/00 09:42

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TEST	RESULTS	BY	SAMPLE	

Sample Description: VALLEY DRYDEN A

05/17/00 Lab No: 01A Test Description: VOLATILE ORGANICS 8260B

Method: SW 846 8260B Test Code: SW8260

Collected: 05/17/00

Category: SOLID

TRICHLOROETHENE	64000	2000
TRICHLOROFLUOROMETHANE	BDL	500
1,2,3-TRICHLOROPROPANE	BDL	500
VINYL ACETATE	BDL	2000
VINYL CHLORIDE	840	500
XYLENE	340000	2000

SURROGATE	%RECOVERY	LIMITS	
d4-1-,2-DICHLOROETHANE	<u>113</u>	<u>70</u> -	121
d8-TOLUENE	93	<u>81</u> -	117
4-BROMOMFLUOROBENZENE	100	<u>74</u> -	121

Notes and Definitions for this Report:

DATE RUN 05/22/00 ANALYST AS INSTRUMENT GC/MS FILE ID X0052220 UNITS uq/Kq METHOD GPA-8260

BDL BELOW DETECTION LIMIT

Attachment 4, page 6 of 8
5 Drum Composite Analytical Results
2000 Sewer Excavation



Order # 00-05-664		Page 11
06/01/00 09:09	REPORT COMMENTS	

VOLATILE SAMPLE WAS REPORTED FROM MULTIPLE RUNS DUE TO THE HIGH CONCENTRATION OF TARGET ANALYTES. THESE DILUTIONS INCLUDE RUNS OF 500X, 2000X, AND 5000X. AS

Attachment 4, page 7 of 8 TT-21 Drum (KVM-70) Analytical Results

# **EXECUTIVE SUMMARY - Detection Highlights**

8J07203 : A8J100143

		REPORTING		ANALYTICAL
PARAMETER	RESULT	LIMIT	UNITS	METHOD

# S-38443-100808-KMV-070 10/08/08 12:45 009

7 1054	01000	4500	/ 1	GT70 4 C	0000
Aroclor 1254	21000	4500	ug/kg	SW846	
Dieldrin	190 J	230	ug/kg		8081A
4,4'-DDE	400	230	ug/kg		8081A
Endrin	210 J	230	ug/kg		8081A
Methoxychlor	400 J	450	ug/kg		8081A
gamma-Chlordane	540 PG	230	ug/kg	SW846	8081A
Arsenic - TCLP	0.0062 B	0.50	mg/L	SW846	6010B
Barium - TCLP	2.1 B,J	10.0	mg/L	SW846	6010B
Cadmium - TCLP	0.064 B	0.10	mg/L	SW846	6010B
Chromium - TCLP	0.0067 B	0.50	mg/L	SW846	6010B
Lead - TCLP	6.4	0.50	mg/L	SW846	6010B
Selenium - TCLP	0.0061 B	0.25	mg/L	SW846	6010B
Arsenic	18.2	0.68	mg/kg	SW846	6020
Thallium	0.25 B,G	0.68	mg/kg	SW846	6020
Mercury	0.33	0.14	mg/kg	SW846	7471A
Silver	4.9	1.4	mg/kg	SW846	6010B
Aluminum	5410	27.2	mg/kg	SW846	6010B
Barium	1170 J	27.2	mg/kg	SW846	6010B
Beryllium	0.83 E	0.68	mg/kg	SW846	6010B
Calcium	26000 J	679	mg/kg	SW846	6010B
Cadmium	37.7	0.68	mg/kg	SW846	6010B
Cobalt	47.6	6.8	mg/kg	SW846	6010B
Chromium	196	1.4	mg/kg	SW846	6010B
Copper	24900	33.9	mg/kg	SW846	6010B
Iron	75900	13.6	mg/kg	SW846	6010B
Potassium	775	679	mg/kg	SW846	6010B
Magnesium	7090 J	679	mg/kg	SW846	6010B
Manganese	689 J	2.0	mg/kg		6010B
Sodium	447 B	679	mg/kg		6010B
Nickel	415	5.4	mg/kg		6010B
Lead	2720	136	mg/kg		6010B
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(Continued on next page)

North Canton 37

# **EXECUTIVE SUMMARY - Detection Highlights**

8J07203 : A8J100143

Antimony   12.0   8.1   mg/kg   SW846   6010B   Selenium   3.9   B   33.9   mg/kg   SW846   6010B   Vanadium   18.7   6.8   mg/kg   SW846   6010B   Vanadium   18.7   0.027   mg/L   SW846   8270C   m-Cresol   p-Cresol   0.37   0.027   mg/L   SW846   8270C   Mg/kg   SW846   Mg/kg   Mg/kg   Mg/	PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Antimony 12.0 8.1 mg/kg SW846 6010B Selenium 3.9 B 33.9 mg/kg SW846 6010B Vanadium 18.7 6.8 mg/kg SW846 6010B Vanadium 18.7 6.8 mg/kg SW846 6010B Vanadium 18.7 6.8 mg/kg SW846 6010B O-Cresol 0.37 0.027 mg/L SW846 8270C mg-Cresol 6.9-Cresol 0.93 0.27 mg/L SW846 8270C Mg-Cresol 6.9-Cresol 0.93 0.27 mg/L SW846 8270C Mg-Cresol 6.9-Cresol 0.0017 J 0.13 mg/L SW846 8270C Mg-Cresol 6.9-Cresol 0.93 0.27 mg/L SW846 8270C Mg-Cresol 6.9-Cresol 0.93 3400 ug/kg SW846 8270C Mg-Cresol 6.9-Cresol 0.93 3400 ug/kg SW846 8270C Mg-Cresol 6.9-Cresol 0.9-Mg-Cresol 6.9-Cresol 6.9-C		112011			
Selenium   3.9 B   33.9	S-38443-100808-KMV-070 10/08/08 12:45	009			
Selenium   3.9 B   33.9	Antimony	12.0	8.1	ma/ka	SW846 6010B
Vanadium 18.7 6.8 mg/kg SW846 6010B Zinc 2330 J 27.2 mg/kg SW846 6010B O-Cresol 0.37 0.027 mg/L SW846 8270C m-Cresol 6 p-Cresol 0.93 0.27 mg/L SW846 8270C Pyridine 0.017 J 0.13 mg/L SW846 8270C Acenaphthene 1000 450 ug/kg SW846 8270C bis(2-Ethylhexyl) 2100 J,B 3400 ug/kg SW846 8270C phthalate Chrysene 1200 450 ug/kg SW846 8270C Fluoranthene 1800 450 ug/kg SW846 8270C Chi-n-butyl phthalate 5100 3400 ug/kg SW846 8270C Fluoranthene 1800 450 ug/kg SW846 8270C Phenanthrene 1800 450 ug/kg SW846 8270C Phenanthrene 19000 450 ug/kg SW846 8270C Phenanthrene 19000 450 ug/kg SW846 8270C Phenanthrene 2600 450 ug/kg SW846 8270C Phenanthrene 19000 450 ug/kg SW846 8270C Phenanthrene 19000 450 ug/kg SW846 8270C Phenanthrene 1000 450 ug/kg SW846 8260B Phenanthrene 1000 450 ug/kg SW846 8260B Phenanthrene 1000 11000 ug/kg SW846 8260B Phenanthrene 10000 11000 ug/kg SW846 8260B Phenanthrene 100000 11000					
Zinc					
o-Cresol         0.37         0.027         mg/L         SW846         8270C           m-Cresol & p-Cresol         0.93         0.27         mg/L         SW846         8270C           Pyridine         0.017 J         0.13         mg/L         SW846         8270C           Acenaphthene         1000         450         ug/kg         SW846         8270C           1,1'-Biphenyl         1600 J         3400         ug/kg         SW846         8270C           phthalate         Chrysene         1200 J,B         3400         ug/kg         SW846         8270C           Di-n-butyl phthalate         5100         3400         ug/kg         SW846         8270C           Fluoranthene         1800         450         ug/kg         SW846         8270C           Pfluoranthene         19000         450         ug/kg         SW846         8270C           Naphthalene         19000         450         ug/kg         SW846         8270C           Naphthalene         19000         450         ug/kg         SW846         8270C           Pyrene         1300         450         ug/kg         SW846         8270C           Pyrene         1300					
m-Cresol & p-Cresol         0.93         0.27         mg/L         SW846         8270C           Pyridine         0.017 J         0.13         mg/L         SW846         8270C           Acenaphthene         1000         450         ug/kg         SW846         8270C           1,1'-Biphenyl         1600 J         3400         ug/kg         SW846         8270C           bis(2-Ethylhexyl)         2100 J,B         3400         ug/kg         SW846         8270C           phthalate         1200         450         ug/kg         SW846         8270C           Di-n-butyl phthalate         5100         3400         ug/kg         SW846         8270C           Fluoranthene         1800         450         ug/kg         SW846         8270C           Pluoranthene         19000         450         ug/kg         SW846         8270C           Pluoranthene         19000         450         ug/kg         SW846         8270C           Pluoranthene         1900         450         ug/kg         SW846         8270C           Phenanthrene         1900         450         ug/kg         SW846         8270C           Pyrene         1300         450					
Pyridine         0.017 J         0.13 mg/L         SW846 8270C           Acenaphthene         1000 450 ug/kg         SW846 8270C           1,1'-Biphenyl         1600 J         3400 ug/kg         SW846 8270C           bis(2-Ethylhexyl)         2100 J,B 3400 ug/kg         SW846 8270C           phthalate         1200 450 ug/kg         SW846 8270C           Di-n-butyl phthalate         5100 3400 ug/kg         SW846 8270C           Fluoranthene         1800 450 ug/kg         SW846 8270C           2-Methylnaphthalene         11000 450 ug/kg         SW846 8270C           Naphthalene         19000 450 ug/kg         SW846 8270C           Phenanthrene         2600 450 ug/kg         SW846 8270C           Pyrene         1300 450 ug/kg         SW846 8270C           Pyrene         1300 450 ug/kg         SW846 8270C           Pyrene         1300 450 ug/kg         SW846 8270C           Benzene         1.1         0.025 mg/L         SW846 8270C           Benzene         1.1         0.025 mg/L         SW846 8270C           Benzene         1.0         0.25 mg/L         SW846 8260B           Chlorobenzene         0.059 0.025 mg/L         SW846 8260B           Vinyl chloride         0.097 0.025 mg/L         SW846	m-Cresol & p-Cresol			_	
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bis(2-Ethylhexyl)       2100 J,B       3400       ug/kg       SW846       8270c         phthalate       1200       450       ug/kg       SW846       8270c         Di-n-butyl phthalate       5100       3400       ug/kg       SW846       8270c         Fluoranthene       1800       450       ug/kg       SW846       8270c         2-Methylnaphthalene       11000       450       ug/kg       SW846       8270c         Naphthalene       19000       450       ug/kg       SW846       8270c         Phenanthrene       2600       450       ug/kg       SW846       8270c         Pyrene       1300       450       ug/kg       SW846       8270c         Benzene       0.1       0.025       mg/L       SW846 </td <td><del>_</del></td> <td></td> <td></td> <td></td> <td></td>	<del>_</del>				
Chrysene         1200         450         ug/kg         SW846         8270C           Di-n-butyl phthalate         5100         3400         ug/kg         SW846         8270C           Fluoranthene         1800         450         ug/kg         SW846         8270C           2-Methylnaphthalene         11000         450         ug/kg         SW846         8270C           Naphthalene         19000         450         ug/kg         SW846         8270C           Phenanthrene         2600         450         ug/kg         SW846         8270C           Pyrene         1300         450         ug/kg         SW846         8270C           Pyrene         1300         450         ug/kg         SW846         8270C           Benzene         1.1         0.025         mg/L         SW846         8270C           Benzene         1.1         0.025         mg/L         SW846         8270C           Chlorobenzene         0.027         0.025         mg/L         SW846         8260B           Chlorobenzene         0.059         0.025         mg/L         SW846         8260B           Benzene         12000         11000         ug/kg	bis(2-Ethylhexyl)				
Di-n-butyl phthalate         5100         3400         ug/kg         SW846         8270C           Fluoranthene         1800         450         ug/kg         SW846         8270C           2-Methylnaphthalene         11000         450         ug/kg         SW846         8270C           Naphthalene         19000         450         ug/kg         SW846         8270C           Phenanthrene         2600         450         ug/kg         SW846         8270C           Phenanthrene         2600         450         ug/kg         SW846         8270C           Pyrene         1300         450         ug/kg         SW846         8270C           Benzene         1.1         0.025         mg/L         SW846         8270C           Benzene         1.1         0.025         mg/L         SW846         8260B           Chlorobenzene         0.059         0.025         mg/L         SW846         8260B           Winyl chloride         0.097         0.025         mg/L         SW846         8260B           Acetone         9600 J         46000         ug/kg         SW846         8260B           Chlorobenzene         12000         11000         ug/kg </td <td>——————————————————————————————————————</td> <td>1000</td> <td>450</td> <td>/1</td> <td>GE10.4.6 0.0.7.0.C</td>	——————————————————————————————————————	1000	450	/1	GE10.4.6 0.0.7.0.C
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Naphthalene       19000       450       ug/kg       SW846       8270C         Phenanthrene       2600       450       ug/kg       SW846       8270C         Pyrene       1300       450       ug/kg       SW846       8270C         Benzene       1.1       0.025       mg/L       SW846       8260B         2-Butanone (MEK)       0.27       0.25       mg/L       SW846       8260B         Chlorobenzene       0.059       0.025       mg/L       SW846       8260B         Chlorobenzene       9600 J       46000       ug/kg       SW846       8260B         Benzene       12000       11000       ug/kg       SW846       8260B         Chlorobenzene       3100 J       11000       ug/kg       SW846       8260B         Cyclohexane       9800 J       23000       ug/kg       SW846       8260B         Ethylbenzene       170000       11000       ug/kg       SW846       8260B         Methylcyclohexane       64000       23000       ug/kg       SW846       8260B         Toluene       50000       11000       ug/kg       SW846       8260B         Xylenes (total)       480000       23000 <td></td> <td></td> <td></td> <td></td> <td></td>					
Phenanthrene       2600       450       ug/kg       SW846       8270C         Pyrene       1300       450       ug/kg       SW846       8270C         Benzene       1.1       0.025       mg/L       SW846       8260B         2-Butanone (MEK)       0.27       0.25       mg/L       SW846       8260B         Chlorobenzene       0.059       0.025       mg/L       SW846       8260B         Vinyl chloride       0.097       0.025       mg/L       SW846       8260B         Acetone       9600 J       46000       ug/kg       SW846       8260B         Benzene       12000       11000       ug/kg       SW846       8260B         Chlorobenzene       3100 J       11000       ug/kg       SW846       8260B         Cyclohexane       9800 J       23000       ug/kg       SW846       8260B         Ethylbenzene       170000       11000       ug/kg       SW846       8260B         Isopropylbenzene       8200 J       11000       ug/kg       SW846       8260B         Methylcyclohexane       64000       23000       ug/kg       SW846       8260B         Toluene       50000       11000 <td></td> <td></td> <td></td> <td></td> <td></td>					
Pyrene       1300       450       ug/kg       SW846       8270C         Benzene       1.1       0.025       mg/L       SW846       8260B         2-Butanone (MEK)       0.27       0.25       mg/L       SW846       8260B         Chlorobenzene       0.059       0.025       mg/L       SW846       8260B         Vinyl chloride       0.097       0.025       mg/L       SW846       8260B         Acetone       9600 J       46000       ug/kg       SW846       8260B         Benzene       12000       11000       ug/kg       SW846       8260B         Chlorobenzene       3100 J       11000       ug/kg       SW846       8260B         Cyclohexane       9800 J       23000       ug/kg       SW846       8260B         Ethylbenzene       170000       11000       ug/kg       SW846       8260B         Isopropylbenzene       8200 J       11000       ug/kg       SW846       8260B         Methylcyclohexane       64000       23000       ug/kg       SW846       8260B         Toluene       50000       11000       ug/kg       SW846       8260B         Xylenes (total)       48000       230					
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Vinyl chloride       0.097       0.025       mg/L       SW846 8260B         Acetone       9600 J       46000       ug/kg       SW846 8260B         Benzene       12000       11000       ug/kg       SW846 8260B         Chlorobenzene       3100 J       11000       ug/kg       SW846 8260B         Cyclohexane       9800 J       23000       ug/kg       SW846 8260B         Ethylbenzene       170000       11000       ug/kg       SW846 8260B         Isopropylbenzene       8200 J       11000       ug/kg       SW846 8260B         Methylcyclohexane       64000       23000       ug/kg       SW846 8260B         Toluene       50000       11000       ug/kg       SW846 8260B         Xylenes (total)       480000       23000       ug/kg       SW846 8260B         Flashpoint       >140       deg F       SW846 1010         Corrosivity       7.6       No Units       SW846 9045C         Cyanide, Total       70.7       6.8       mg/kg       SW846 9012A	,			_	
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Chlorobenzene       3100 J       11000       ug/kg       SW846       8260B         Cyclohexane       9800 J       23000       ug/kg       SW846       8260B         Ethylbenzene       170000       11000       ug/kg       SW846       8260B         Isopropylbenzene       8200 J       11000       ug/kg       SW846       8260B         Methylcyclohexane       64000       23000       ug/kg       SW846       8260B         Toluene       50000       11000       ug/kg       SW846       8260B         Xylenes (total)       480000       23000       ug/kg       SW846       8260B         Flashpoint       >140       deg F       SW846       1010         Corrosivity       7.6       No Units       SW846       9045C         Cyanide, Total       70.7       6.8       mg/kg       SW846       9012A					
Cyclohexane       9800 J       23000       ug/kg       SW846       8260B         Ethylbenzene       170000       11000       ug/kg       SW846       8260B         Isopropylbenzene       8200 J       11000       ug/kg       SW846       8260B         Methylcyclohexane       64000       23000       ug/kg       SW846       8260B         Toluene       50000       11000       ug/kg       SW846       8260B         Xylenes (total)       480000       23000       ug/kg       SW846       8260B         Flashpoint       >140       deg F       SW846       1010         Corrosivity       7.6       No Units       SW846       9045C         Cyanide, Total       70.7       6.8       mg/kg       SW846       9012A					
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Isopropylbenzene       8200 J       11000       ug/kg       SW846 8260B         Methylcyclohexane       64000       23000       ug/kg       SW846 8260B         Toluene       50000       11000       ug/kg       SW846 8260B         Xylenes (total)       480000       23000       ug/kg       SW846 8260B         Flashpoint       >140       deg F       SW846 1010         Corrosivity       7.6       No Units       SW846 9045C         Cyanide, Total       70.7       6.8       mg/kg       SW846 9012A	<del>-</del>				
Methylcyclohexane       64000       23000       ug/kg       SW846       8260B         Toluene       50000       11000       ug/kg       SW846       8260B         Xylenes (total)       480000       23000       ug/kg       SW846       8260B         Flashpoint       >140       deg F       SW846       1010         Corrosivity       7.6       No Units       SW846       9045C         Cyanide, Total       70.7       6.8       mg/kg       SW846       9012A	<del>-</del>				
Toluene 50000 11000 ug/kg SW846 8260B  Xylenes (total) 480000 23000 ug/kg SW846 8260B  Flashpoint >140 deg F SW846 1010  Corrosivity 7.6 No Units SW846 9045C  Cyanide, Total 70.7 6.8 mg/kg SW846 9012A					
Xylenes (total)       480000       23000       ug/kg       SW846 8260B         Flashpoint       >140       deg F       SW846 1010         Corrosivity       7.6       No Units       SW846 9045C         Cyanide, Total       70.7       6.8       mg/kg       SW846 9012A					
Flashpoint       >140       deg F       SW846 1010         Corrosivity       7.6       No Units       SW846 9045C         Cyanide, Total       70.7       6.8       mg/kg       SW846 9012A					
Corrosivity 7.6 No Units SW846 9045C Cyanide, Total 70.7 6.8 mg/kg SW846 9012A	<del>-</del>		23000		
Cyanide, Total 70.7 6.8 mg/kg SW846 9012A	<del>-</del>			_	
	<del>-</del>		6.8		
TOTOGER DOLLAR TOTAL TOT					
Total Sulfide 489 40.7 mg/kg SW846 9030B/9034					

North Canton 38



Photograph taken by: Dale Farmer, Ohio EPA Emergency Response, Southwest District

Date: May 17, 2000

Attachment 6, page 1 of 2

# IN THE UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF OHIO HOBART CORPORATION, et al., Plaintiffs,

-vs-

WASTE MANAGEMENT OF OHIO, INC., et al., Defendants

Case No. 3:10-CV-195

VIDEOTAPED DEPOSITION OF HORACE J. BOESCH, JR., taken by me, Susan L. Bickert, a Certified Shorthand Reporter and Notary Public in and for the State of Ohio, at large, as upon Cross Examination, at the offices of Dinsmore & Shohl LLP, 1100 Courthouse Plaza SW, 10 North Ludlow Street, Dayton, Ohio 45402, on Thursday, December 1, 2011, 15 commencing at 10:07 o'clock a.m. on behalf of the Plaintiffs. 18

# Excerpt from pages 31-32:

- Q. How long was Ottoson in business at the location that you've identified with the numeral 12?
- A. Probably someplace in the neighborhood of eight to ten years.
- Q. Do you recall when he first began business, that is, when Ottoson first began business?
- A. Yeah. When we put that building back together we took it apart, like I said, when 75 came through Dayton, and that was I think the late fifties when Interstate 75 came through. I wouldn't swear to it. I'd have to check that date.
- Q. How long did Ottoson Solvents operate in the building?
- A. He was the only tenant in that building for years. I would say he was in there sometime eight to ten years at least, and then he bought this place over at South Charleston.

## Excerpt from pages 61-62:

- Q. Did Ottoson Solvents dump at the site?
- A. I wouldn't say dumped at the site. He cleaned his drums out. But, you know, they were supposed to be empty drums, but, you know, there's always some residue left in 'em. And I don't know really he I know he had a couple of old drums that collected the residue, you know, when he was cleaning 'em out, but that's about it. I don't know. He well, I think he took a backhoe and dug a hole back behind his building and dumped a couple when they got full.
- Q. Do you have any personal recollection of drums being disposed of by Ottoson Solvents? A. No, I don't. I don't have a personal I knew he had those two drums that set outside the building there. Any residue he'd dump in there, and then he'd dump 'em when they were I know Doyle was complaining. He says, "I think he's dumping on my ground," on his leased ground, you know, that had the wrecking yard down below him there.
- Q. Was it your understanding that Ottoson was dumping solvents onto the ground when these barrels got full?

Attachment 6, page 2 of 2

A. Well, that's what I understood, but I never saw it. I couldn't swear to it. But, you know, I knew he had the two drums outside of his back door there and —

Q. You actually saw those drums outside the back door?

A. Yeah, mm-hmm.